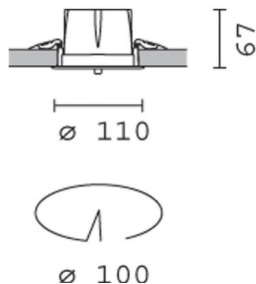# Pixel Pro

Last information update: April 2024

Product configuration: MN63
MN63: recessed luminaire Ø 110 - warm white passive dissipation LED - integrated DALI control gear - medium

Product code
MN63: recessed luminaire Ø 110 - warm white passive dissipation LED - integrated DALI control gear - medium **Attention! Code no longer in production**

Technical description
recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Structure with die-cast aluminium frame and main body; shaped surface with high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Steel rotation hinge, chrome-plated aluminium body closing ring. Plastic reflector with high definition treatment - medium beam angle. Body adjusted using manually operated device: internal 30° - external 75° - rotation about axis 355°. Supplied with DALI dimmable control gear connected to the luminaire. Warm white high colour rendering index LED CRI (Ra) 90.

Installation
recessed using steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole Ø 100

Colour
White / Aluminium (39) | Grey/Aluminium (78)

Mounting
ceiling recessed

Wiring
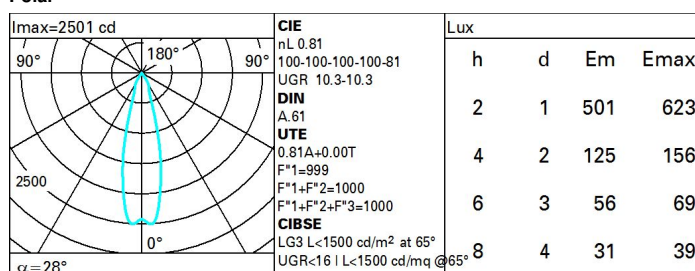on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

IP20 IP23 CE EAC NOM

Technical data

lm system:	656	CRI:	90
W system:	13.8	Colour temperature [K]:	3000
lm source:	810	MacAdam Step:	3
W source:	11	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	47.5	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	28°	Control:	DALI

Polar

CIE nL 0.81 100-100-100-100-81 UGR 10.3-10.3 **DIN** A.61 **UTE** 0.81A+0.00T F"1=999 F"1+F"2=1000 F"1+F"2+F"3=1000 **CIBSE** LG3 L<1500 cd/m² at 65° UGR<16	L<1500 cd/mq @65°			

Imax=2501 cd
α=28°

Lux			
h	d	Em	Emax
2	1	501	623
4	2	125	156
6	3	56	69
8	4	31	39

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	67	65	69	66	66	64	78
1.0	76	73	71	69	72	70	70	67	83
1.5	80	78	76	74	77	75	74	72	89
2.0	83	81	79	78	80	78	77	75	93
2.5	84	83	82	81	82	81	80	78	96
3.0	85	84	83	83	83	82	81	79	98
4.0	86	85	85	84	84	84	82	80	99
5.0	87	86	86	86	85	84	83	81	100

Luminance curve limit

QC	A	G	1.15	2000	1000	500		<=300			
	B		1.50		2000	1000	750	500	<=300		
	C		1.85			2000		1000		500	<=300

85°							8 6 4
75°							
65°							2
55°							a h
45°	10²	2	3 4 5 6 8 10³	2	3	4 5 6 8 10⁴	cd/m²

C0-180 ——————— C90-270 - - - - - - - - - - - -
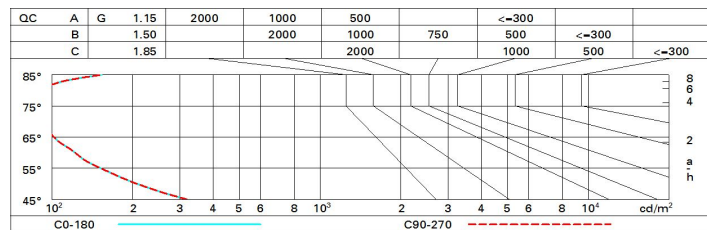
UGR diagram

Corrected UGR values (at 810 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	11.2	13.2	11.6	13.5	13.9	11.2	13.2	11.6	13.5	13.9
	3H	11.1	12.6	11.4	12.9	13.3	11.1	12.6	11.4	12.9	13.3
	4H	11.0	12.3	11.4	12.6	13.0	11.0	12.3	11.4	12.6	13.0
	6H	10.9	12.0	11.3	12.4	12.7	10.9	12.0	11.3	12.4	12.7
	8H	10.9	12.0	11.3	12.3	12.7	10.9	12.0	11.3	12.3	12.7
	12H	10.8	11.9	11.2	12.3	12.6	10.8	11.9	11.2	12.3	12.6
4H	2H	11.0	12.3	11.4	12.6	13.0	11.0	12.3	11.4	12.6	13.0
	3H	10.8	11.9	11.2	12.3	12.6	10.8	11.9	11.2	12.3	12.6
	4H	10.7	11.7	11.2	12.1	12.5	10.7	11.7	11.2	12.1	12.5
	6H	10.4	12.0	10.9	12.4	12.9	10.4	12.0	10.9	12.4	12.9
	8H	10.3	12.0	10.8	12.5	13.0	10.3	12.0	10.8	12.5	13.0
	12H	10.1	12.0	10.7	12.5	13.0	10.1	12.0	10.7	12.5	13.0
8H	4H	10.3	12.0	10.8	12.5	13.0	10.3	12.0	10.8	12.5	13.0
	6H	10.1	11.9	10.6	12.3	12.9	10.1	11.9	10.6	12.3	12.9
	8H	10.1	11.6	10.6	12.1	12.7	10.1	11.6	10.6	12.1	12.7
	12H	10.2	11.3	10.8	11.8	12.3	10.2	11.3	10.8	11.8	12.3
12H	4H	10.1	12.0	10.7	12.5	13.0	10.1	12.0	10.7	12.5	13.0
	6H	10.1	11.6	10.6	12.1	12.7	10.1	11.6	10.6	12.1	12.7
	8H	10.2	11.3	10.8	11.8	12.3	10.2	11.3	10.8	11.8	12.3

Variations with the observer position at spacing:

S =	1.0H	7.0 / -22.7		7.0 / -22.7
	1.5H	9.8 / -23.2		9.8 / -23.2
	2.0H	11.8 / -23.5		11.8 / -23.5